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Amendments To The Claims:

Please amend the claims as shown.

1 - 14 (canceled)

15. (new) A stationary gas turbine for power generation, comprising:
an injection apparatus for injecting a liquid into an air stream that is sucked in by a
compressor;

a fuel mixed with the air stream and combusted in a combustion chamber to form a hot gas which expands as it flows through a downstream turbine part; and

a temperature-measuring device for recording a temperature of the air stream, wherein the temperature-measuring device is arranged upstream of the injection apparatus, and the temperature of the air stream at an inlet of the compressor is calculated by the measured temperature.

- 16. (new) The gas turbine as claimed in claim 15, wherein the humidity of the air stream is determined upstream of the injection apparatus by an air-humidity-measuring device.
- 17. (new) The gas turbine as claimed in claim 15, wherein the temperature is calculated by a function based on temperature and humidity distributions.
- 18. (new) The gas turbine as claimed in claim 15, wherein the temperature and humidity distributions can be predetermined in the form of diagrams.
- 19. (new) A temperature-measuring device for recording a temperature of the air stream upstream of a compressor of a stationary gas turbine, comprising an injection apparatus arranged downstream of the temperature measuring device for injecting a liquid into the air stream that can be sucked in by the compressor, wherein the temperature of the air stream at the inlet of the compressor is calculated by a measured temperature.

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20. (new) A control arrangement for controlling the hot-gas temperature of a hot gas in a stationary gas turbine, comprising:

an injection apparatus for injecting a liquid into an air stream that can be sucked in by a compressor;

a fuel that is combusted in a downstream combustion chamber to form the hot gas that expands as it flows through a downstream turbine part; and

a temperature-measuring device that records the temperature of the air stream upstream of the compressor with the hot-gas temperature being controlled by a quantity of the fuel,

wherein the temperature-measuring device is arranged upstream of the injection apparatus and the temperature of the air stream at the inlet of the compressor is calculated by the measured temperature.

- 21. (new) The control arrangement as claimed in claim 20, wherein the hot-gas temperature is recorded at an outlet of the turbine part.
- 22. (new) The control arrangement as claimed in claim 20, characterized in that the humidity of the air stream can be determined upstream of the injection apparatus by an air-humidity-measuring device.
- 23. (new) The control arrangement as claimed in claim 20, wherein the temperature is determined at a minimum possible temperature at which it is assumed there is sufficient evaporation for a 100% air humidity to be present at the inlet of the compressor.
- 24. (new) The control arrangement as claimed in claim 20, wherein the temperature is calculated taking into account the evaporation of the injected liquid in the air stream.
- 25. (new) The control arrangement as claimed in claim 20, wherein the quantity of liquid injected into the air stream is altered as a function of the evaporation.
- 26. (new) The control arrangement as claimed in claims 20, wherein the liquid is distilled water.

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- 27. (new) The control arrangement as claimed in claim 20, wherein the temperature is calculated by a function on the basis of temperature and humidity distributions.
- 28. (new) The control arrangement as claimed in claim 27, wherein the functions can be predetermined in the form of diagrams.